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CE Conditions

Capillary Electrophoresis: TSP CE1000
Capillary (type/length): Bare fused silica (375 μ m O.D., 50 μ m I.D.) effective 32cm, total 40cm.

Applied Voltage: 25kV

Injection: Hydrodynamic, 5sec.

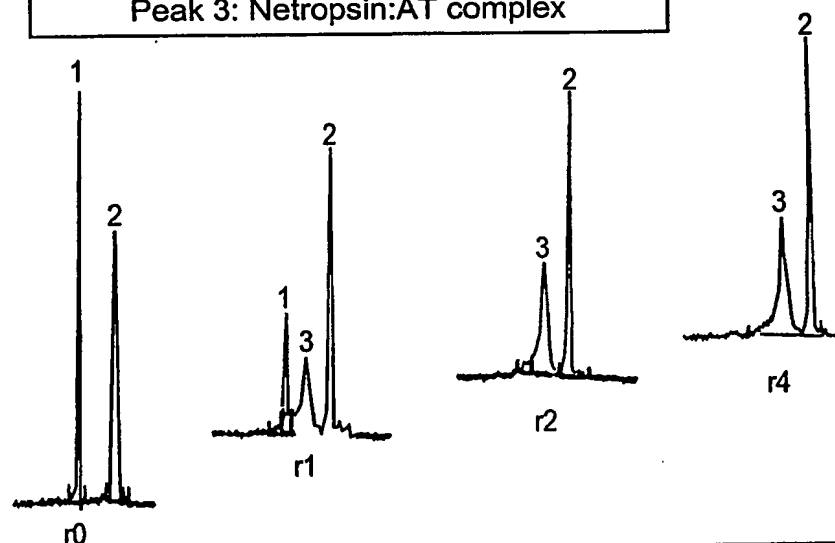
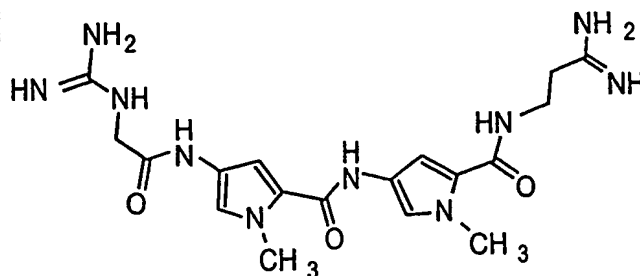
Capillary temperature 20°C \pm 0.1 °C

Buffer: 0.02M Borate buffer, pH7.5

UV detection: 260nm.

DNA Cone: 20 μ M

Key: Peak 1: AAATTATATTAT (AT)
Peak 2: GGGCCGCGCCGC (GC)
Peak 3: Netropsin:AT complex

**Netropsin**

Competitive binding studies with netropsin.

Fig.1

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CE Conditions

Capillary Electrophoresis: Agilent G1600

Capillary (type/length): Bare fused silica (375 μ m O.D., 50 μ m I.D.) effective 25cm. total 33.5cm.

Applied Voltage: 25kV

Injection: Pressure, (50mBar, 5sec)

Capillary temperature 20°C \pm 0.1°C

Buffer: 0.02M Borate buffer, pH7.5

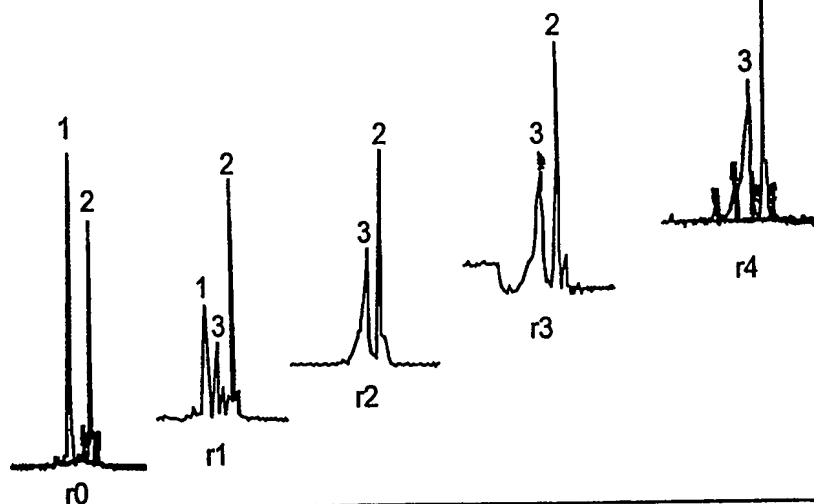
UV detection: 260nm.

DNA Cone: 20 μ M

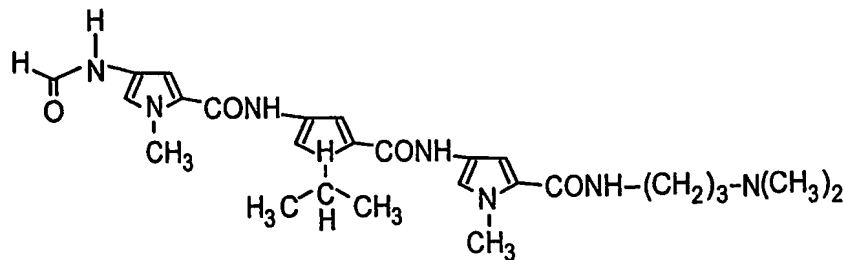
Key: Peak 1: AAATTATATTAT (AT)

Peak 2: GGGCCGCGCCGC (GC)

Peak 3: 1241:AT complex



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Competitive binding studies with compound 12/41

Fig.2

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CE Conditions

Capillary Electrophoresis: Beckman P/ACE MDQ.

Capillary (type/length): Bare fused SILICA(375 μ m O.D., 50 μ m I.D.) effective 21cm, total 31.2 cm.

Applied Voltage: 25kV

Injection: Pressure, (20 P.S.I., 0.5 sec)

Capillary temperature 20°C \pm 0.1°C

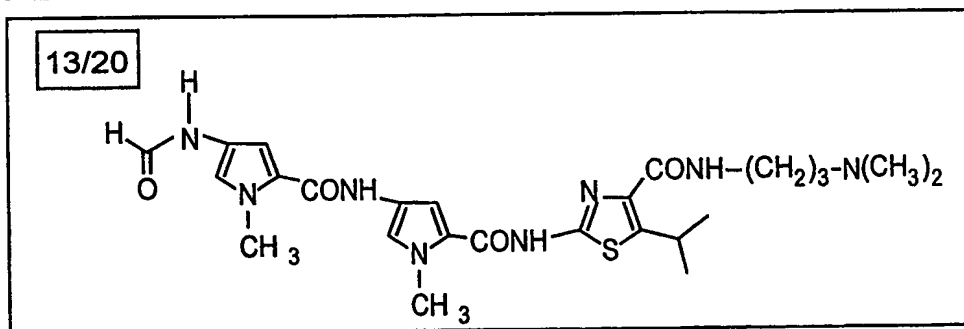
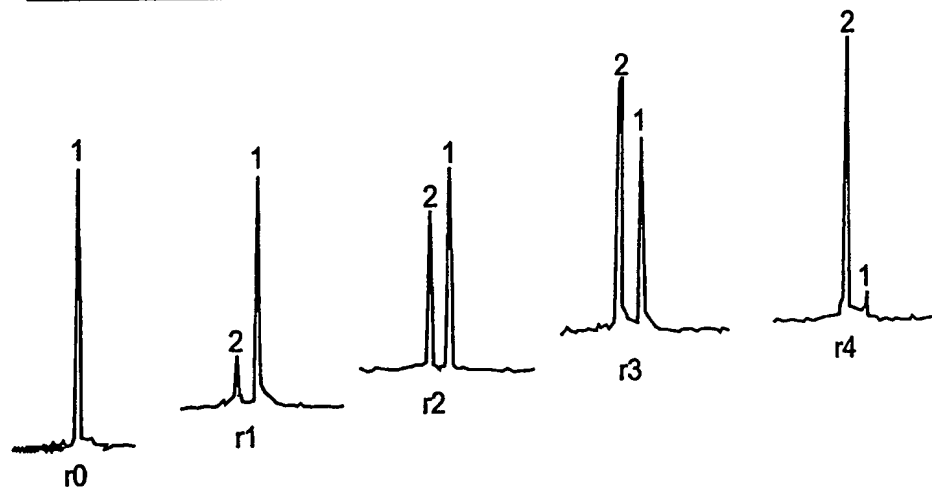
Buffer: 0.02M Borate buffer, pH7.5

UV detection: 260nm.

DNA Cone: 20 μ M

Key: Peak 1: CGACTAGTCG (ACTA)

Peak 2: 1320:ACTA complex



Capillary electrophoresis studies of the interaction between compound 13/20 and DNA decamer CGACTAGTCG.

Fig.3

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CE Conditions

Capillary Electrophoresis: Beckman P/ACE MDQ.

Capillary (type/length): Bare fused SILICA(375 μ m O.D., 50 μ m I.D., effective 21cm, total 31.2 cm.

Applied Voltage: 25kV

Injection: Pressure, (20 P.S.I., 0.5 sec)

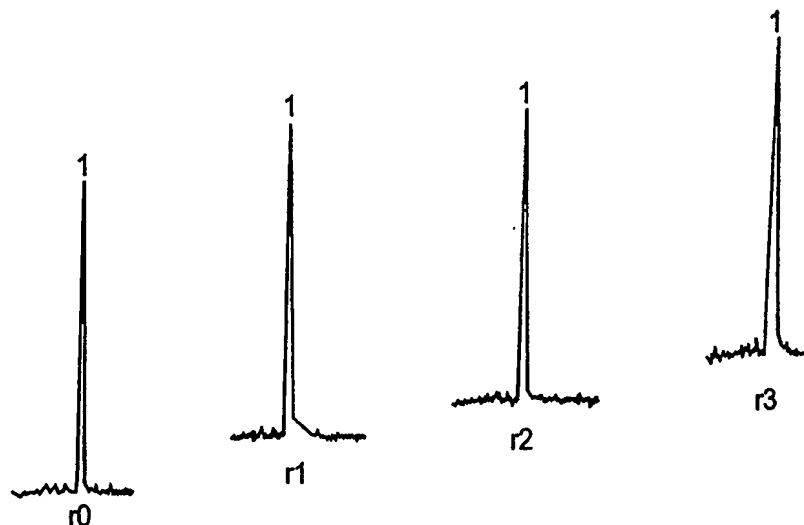
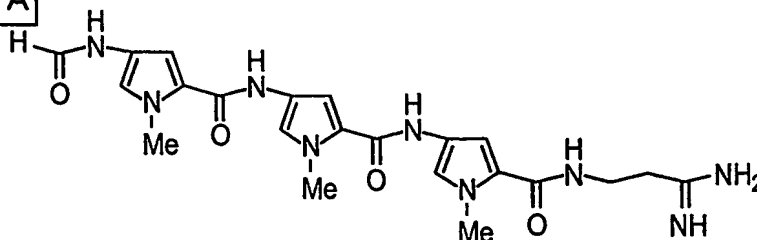
Capillary temperature 20°C \pm 0.1°C

Buffer: 0.02M Borate buffer, pH7.5

UV detection: 260nm.

DNA Cone: 20 μ M

Key: Peak 1: CGACTAGTCG (ACTA)

**Distamycin A**

Capillary electrophoresis studies of the interaction between distamycin and DNA decamer CGACTAGTCG.

Fig.4

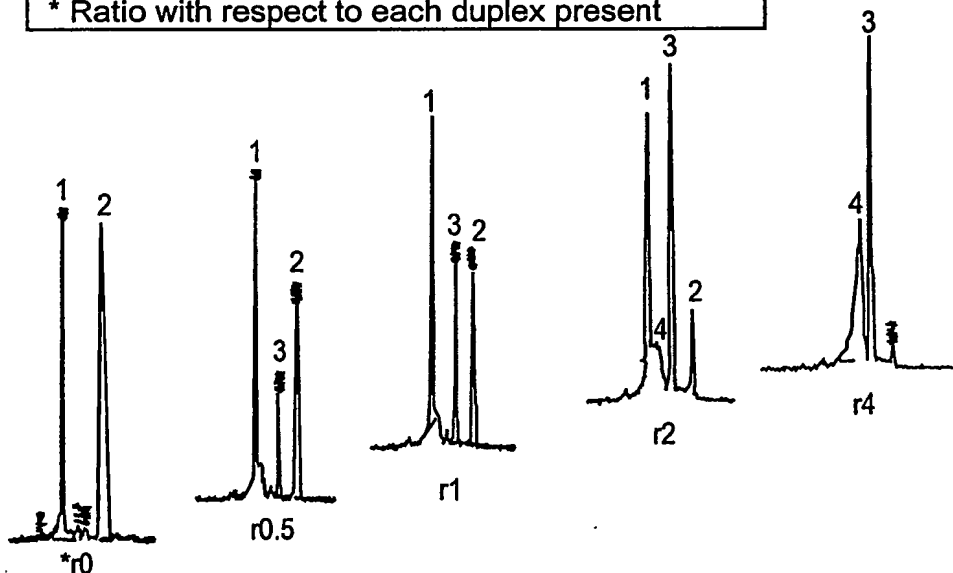
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CE Conditions

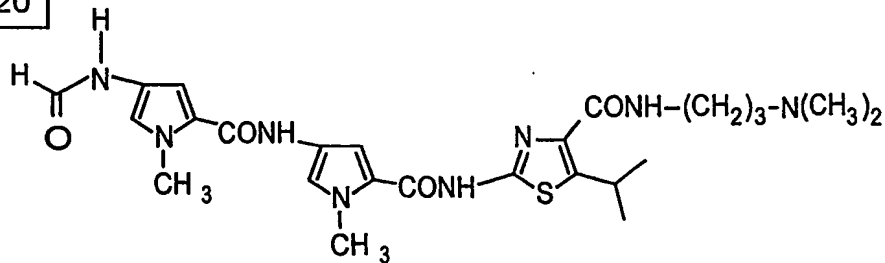
Capillary Electrophoresis: Agilent G1600
 Capillary (type/length): Bare fused SILICA(375 μ m
 O.D., 50 μ m I.D.) effective 25cm, total 33.5 cm.
 Applied Voltage: 25kV
 Injection: Pressure, (50mBar, 5 sec)
 Capillary temperature 20°C \pm 0.1°C
 Buffer: 0.02M Borate buffer, pH7.5
 UV detection: 260nm.
 DNA Cone: 20 μ M

Key: Peak 1: AAATTATATTAT (AT).
 Peak 2: CGACTAGTCG (ACTA).
 Peak 3: 1320: ACTA complex.
 Peak 4: 1320: AT complex.

* Ratio with respect to each duplex present



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Competitive binding studies with compound 13/20

Fig 5

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CE Conditions

Capillary Electrophoresis: Beckman P/ACE MDQ.

Capillary (type/length): Bare fused Silica(375 μ m O.D., 50 μ m I.D.) effective 21cm, total 31.2 cm.

Applied Voltage: 25kV

Injection: Pressure, (20 P.S.I., 0.5 sec)

Capillary temperature 20°C \pm 0.1°C

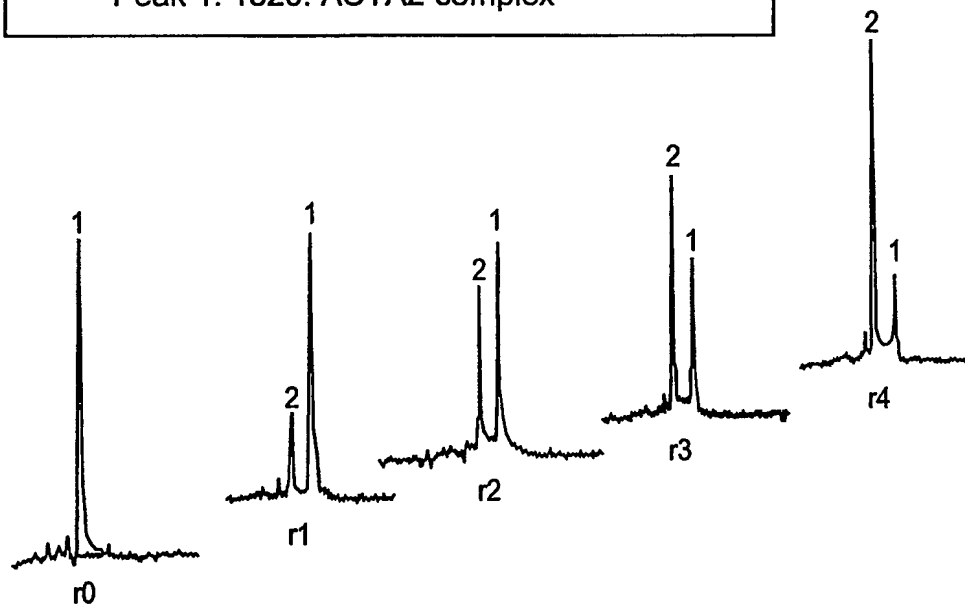
Buffer: 0.02M Borate buffer, pH7.5

UV detection: 260nm.

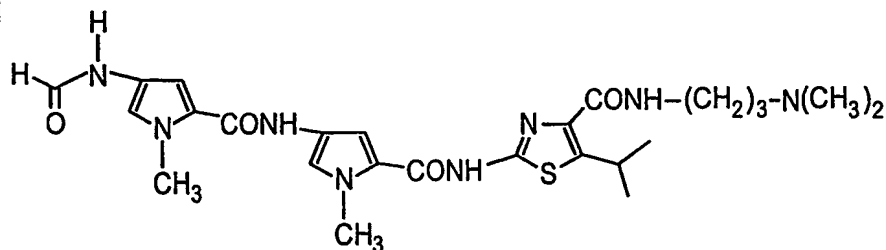
DNA Cone: 20 μ M

Key: Peak 1: CGACTAGTGG (ACTA2)

Peak 1: 1320: ACTA2 complex



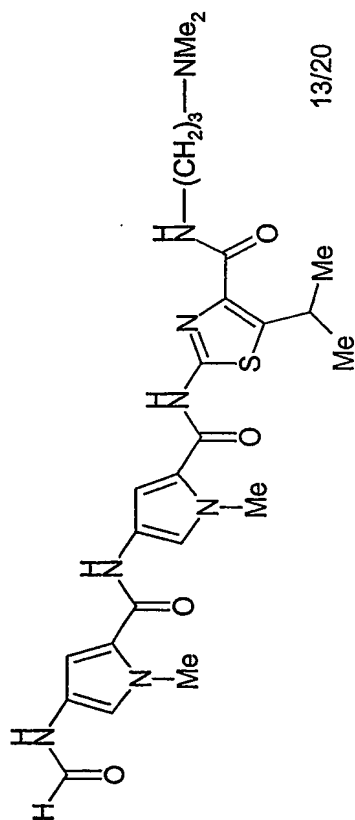
1320



Capillary electrophoresis studies of the interaction between compound 1320 and DNA decamer CCACTAGTGG

Fig 6

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13/20

5'-GGATCCATATGCGGCAATACACATGCGCGATTTCAACTGCACTAGTCGTAGCGGATCAAGGTTAGCTCCCGTTCTATCC
x XXXXXXxxxx

TGGTATAGCAATTAGGGCGTGAAGAGTTATGTAAAGTACGTCCGGTGGGGTCTGTTTTGTCTATCTCAGCCCTCGAATCGGGATC

(Experiment carried out at 0.03 μM of compound 13/20)

Fig. 7

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Footprinting studies with compound 13/51

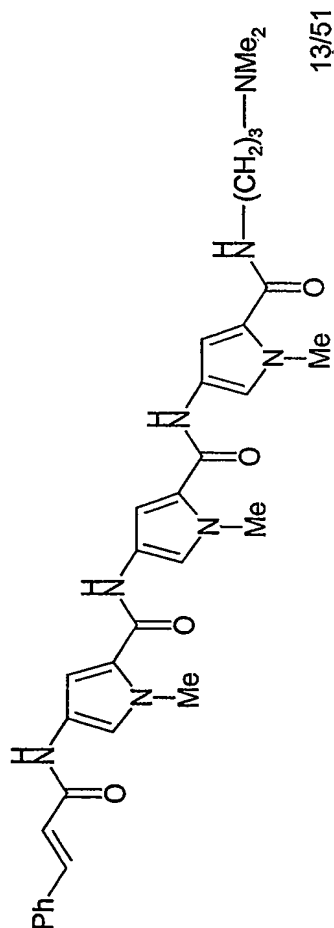


Fig. 8

5'-GGATCCATATGCGGCAATACACATGCGCGATTTCCTCAACTGCACCTAGTCGTAGCGCGATCAAGGTTAAGCTCCCGTTCTATCC
xxxxx(0.1)

TGGTATAGCAATTAGGGCGTGAAAGAGTTATGTAAAGTACGTCCGGTGGGGTCTGTTTTGTTCATCTCAGCCTCGAATGCGGATC
xxxx(3) xxxxxxxx(0.1) xxxxx(1)xxxxx(0.01) xxxxx(0.1)

The numbers in brackets refer to the concentration of compound 13/51 (in μM) at which the relevant footprint was observed.

Effect of DNA Minor Groove Binding Compounds upon LPS-Stimulated NF κ B-DNA Binding Activity in Murine Macrophages

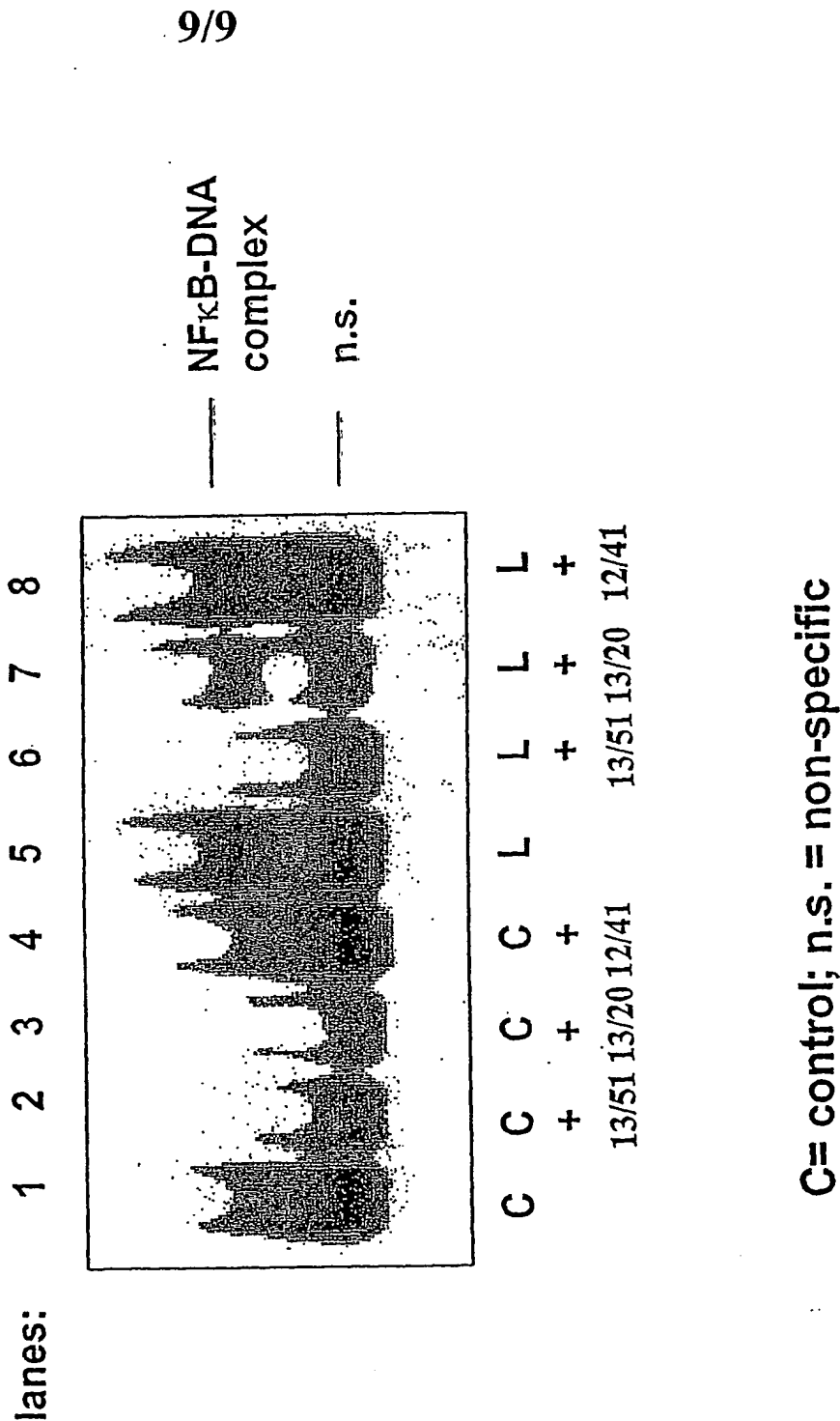


Fig. 9